



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WID003982709

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Precision Metalsmiths, Inc. 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 1149 N. Margaret Street
03 CITY Markesan 04 STATE WI 05 ZIP CODE 53946 06 COUNTY Green Lake 07 COUNTY CODE 047 08 CONG DIST 6
09 COORDINATES LATITUDE 43°43'11.0" LONGITUDE 88°59'30.0" Markesan 7.5 NW 1/4 NE 1/4 Sec 6 T14N R13E
10 DIRECTIONS TO SITE (Starting from nearest public road) (From Madison, WI) → 151 North to 73 North to 44 East to Markesan Facility and former surface impoundment on north side Markesan.

III. RESPONSIBLE PARTIES

01 OWNER (If known) Precision Metalsmiths, Inc. 02 STREET (Business, mailing, residential) 1081 East 200th Street
03 CITY Cleveland 04 STATE OH 05 ZIP CODE 44117 06 TELEPHONE NUMBER (216) 481-8900 Tim Coghill
07 OPERATOR (If known and different from owner) SAME 08 STREET (Business, mailing, residential)
09 CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER
13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: Nov 17 80 MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
YES DATE July 29 85 MONTH DAY YEAR
☒ NO ☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: (Specify)
CONTRACTOR NAME(S):

02 SITE STATUS (Check one) ☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN 03 YEARS OF OPERATION
1956 present BEGINNING YEAR ENDING YEAR ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Deposits of heavy metals in surface drainage ditches and impoundment pond, due to past facility discharges.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Surface Water (population/environment)
Groundwater

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Dave Edwards 02 OF (Agency/Organization) Department of Natural Resources 03 TELEPHONE NUMBER (414) 485-4434
04 PERSON RESPONSIBLE FOR ASSESSMENT James Crawford 05 AGENCY WDNR/SMJ 06 ORGANIZATION 07 TELEPHONE NUMBER (608) 266-2699 08 DATE 8 4 85 MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE WI 02 SITE NUMBER WID003982209

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) <input type="checkbox"/> A SOLID <input checked="" type="checkbox"/> B POWDER, FINES <input checked="" type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER (Specify) _____ <input type="checkbox"/> E SLURRY <input checked="" type="checkbox"/> F LIQUID <input type="checkbox"/> G GAS	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) TONS <u><1</u> CUBIC YARDS _____ NO OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE
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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	1306	lbs.	Zinc, lead, chromium, copper, nickel

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
Projected Waste Quantities					
	Substance	* mg/L	** 1978 lbs.	*** lbs. in 24hr.	Total lbs.
	Chromium, Total	1.34	17	406	423
	Copper, total	0.21	3	64	67
	Lead, total	0.42	5	127	132
	Nickel, total	0.31	3	94	97
	Zinc, total	1.86	23	563	586
					1305
* Data from 1978 NR101 Reporting Form of surface water discharge.					
** Sample calc. 1978 → 1 yr. x 152 d/yr x 8.34 x .0095 x 1.34 = 17 lbs.					
*** Sample Calc. Assume flow from 1956-1977 was 70 % of 1978 flow. → 21 yrs x 260 d/yr x 8.34 lb/gal x .0095 mcg x 0.7 x 1.34 mg/L = 406 lbs.					

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	35,000 lbs Muriatic Acid		FDS	5 lbs. Chromium Trioxide	
FDS	570,000 lbs mostly NaOH		FDS	2000 lbs "CW-220" trmt. Compd	
FDS	875 lbs HNO ₃		FDS	(30 % Sulfuric acid + scale	
FDS	125 lbs Hydrofluoric Acid		FDS	inhibitor & sludge conditioner)	

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

1. 1978 list of raw materials from Precision Metalsmiths, Inc.
2. 1978 N.R. 101 Reporting form (WDNR IWW files).
3. Conversation with Phil Meyers, Plant Mgr. (414) 398-2361.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

WI W10003982709

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 1850

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

No data available on site subsurface conditions. Nearby muni. well logs show sandstone aquifer 25-30' below surface.

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 1620

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Downstream ditches, surface impoundment and Grand River may be affected by heavy metals discharges from facility.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☒ ALLEGED

Unknown

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

NA

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: 1500/in 1 mi

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Pond impoundment not fenced; drainage ditch runs through town.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 15
(Acres)

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Including plant grounds and surface impoundment.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 1850

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

The 2 City of Markesan municipal wells are within one mile of site, downstream. No records of sampling for heavy metals.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 120

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☒ ALLEGED

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 1850

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED



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PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
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II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

unknown

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

unknown

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

unknown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Soils, runoff/standing liquids, leaking drums)

03 POPULATION POTENTIALLY AFFECTED: 1500

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

runoff from facility

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

unknown

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

unknown

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

unknown

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

unknown

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1850

IV. COMMENTS

See attached narrative.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Certified Village Markesan well logs.
2. Report by Wendell Wojner WODNR, of site perimeter inspection 7/29/85.
3. WODNR Industrial wastewater files.

4. WODNR RCRA file.
5. "Final Report On Wisconsin Surface Impoundment Study" Feb. 1980, WODNR.

[illegible]

map source: Markesan 7.5 QUAD. circa 1980

JMD
8/2/83

PA SUMMARY NARRATIVE

SITE NAME: PRECISION METALSMITHS, INC.

CERCLIS#: WID 003982709

LOCATION: 1149 N MARGARET STREET
MARKESAN, WI
GREEN LAKE COUNTY

HISTORY OF SITE: Precision Metalsmiths, Inc. is a small metal parts plater, in operation at this location since 1956. The firm owns 60 acres of land west of Highway 44, on the north side of Markesan; 50 acres of which are rented out for farming. Process wastewater from the firm contains low levels of heavy metals.

The firm also produces a solid caustic waste which is drummed and shipped to a hazardous waste facility in Ohio. Formerly, this waste was disposed of at the Markesan-Mackford landfill.

Between sometime in the 1960's and 1978, the firm discharged noncontact cooling water and process water to a ditch. The ditch ran south to an off-site, unlined surface impoundment. It is not clear if the impounded wastewater primarily seeped through the pond bottom, or drained via surface ditches to the Grand River. The surface impoundment was originally a farm pond. It's present owner has not been determined. The firm was requested to route plant runoff through the pond by the City of Markesan in the mid-60's, in order to reduce downslope flooding and erosion. Prior to diversion to the pond it is assumed that plant wastes were discharged from the plant outfall directly to surface ditches winding to the Grand River.

The firm stopped using the pond when process wastes were diverted to the Markesan WWTP in 1978. Sometime in 1979 or 1980, noncontact cooling water was diverted to a closed on-site recirculation system. An on-site cooling water tower was constructed for this purpose.

AREA DESCRIPTION: The former impoundment pond now supports a good growth of cattails, with box elders on the outskirts. East of the pond and west of Hwy 44, the County deepened a highway ditch to preclude further drainage to the pond, even under emergency situations.

Based on nearby Markesan Village well logs, the site is underlain by approximately 15-30 feet of sand and gravel, a 10-20 foot mixed dolomite/shaley layer, and

underlying Cambrian sandstone. The Cambrian is one of the major Wisconsin water bearing aquifers.

INSPECTION

PRIORITY:

MEDIUM

COMMENTS:

No sampling for heavy metals has been done of sediments in the surface impoundment. Nor has the exact surface drainage route from the pond to the Grand River been established; a probable route runs through the City of Markesan.

Over a 10 - 20 year period, significant amounts of lead, zinc, chromium, copper and nickel may have accumulated both in the pond sediments and along surface drainage routes. This observation is based on the quantities of these metals reported in 1978 NR101 monitoring of process wastewater. In addition, the two City of Markesan municipal wells are located within a half mile downslope of the former surface impoundment. Because of the unknown amounts of metals remaining in the vicinity, a site inspection and sampling of these areas appears to be warranted.

SITE INSPECTION

CONTACT PERSON:

Dave Edwards, WDNR/SO Environmental Specialist
1210 Palmatory Street
Horicon, WI 53032

COMPLETED BY:

James Crawford, WDNR Environmental Specialist
101 S Webster Street, GEF II
Madison, WI 53707
(608) 266-2699